

Product datasheet for **SC119603**

Natriuretic Peptide Receptor C (NPR3) (NM_000908) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Natriuretic Peptide Receptor C (NPR3) (NM_000908) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Natriuretic Peptide Receptor C |
| Synonyms: | ANP-C; ANPR-C; ANPRC; C5orf23; GUCY2B; NPR-C; NPRC |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000908, the custom clone sequence may differ by one or more nucleotides

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ATGCCGTCTCTGCTGGTGTCTCACTTTCTCCCCGTGCGTACTACTCGGCTGGGCGTTGCTGGCCGGCGGCA
CCGGTGGCGGTGGCGTTGGCGGGCGGGCGGTGGCGCGGCATAGGCGGGACGCCAGGAGAGAGAGGC
GCTGCCGCCACAGAAGATCGAGGTGCTGGTGTACTGCCCCAGGATGACTCGTACTTGTTCCTACTCACC
CGGGTGGCGGGCCGATCGAGTATGCTCTGCGCAGCGTGGAGGGCAACGGGACTGGGAGGCGGCTTCTGC
CGCCGGGCACTCGCTTCCAGGTGGCTTACGAGGATTACAGACTGTGGGAACCGTGCCTTTCAGCTTGGT
GGACCGGTGGCGGGCGCGGGGGCCAAAGCCAGACCTATCCTGGGGCCAGTGTGCGAGTATGCAGCA
GCGCCAGTGGCCCGGCTTGCATCGCACTGGGACCTGCCATGCTGTGGCTGGGGCGCTGGCCGCTGGCT
TCCAGCACAAGGACTCTGAGTACTCGCACCTCACGCGGTGGCGCCGCTACGCCAAGATGGGCGAGAT
GATGCTCGCCCTGTTCCGCCACCACCCTGGAGCCGCGTGCCTGCTACAGCGACGACAAGCTGGAG
CGGAAGTCTACTTACCCTCGAGGGGGTCCACGAGGTCTTCCAGGAGGAGGTTTGCACACGTCCATCT
ACAGTTTCGACGAGACCAAGACTTGGATCTGGAAGACATCGTGCCTAATCCAGGCCAGTGGAGAGT
GGTGATCATGTGTGCGAGCAGTACACCATCCGGAGCATCATGCTGGTGGCGCACAGGCATGGCATTGACC
AGTGGAGACTACGCCTTCTTCAACATTGAGCTCTTCAACAGCTCTTCTATGGAGATGGCTCATGGAAGA
GAGGAGACAAACAGACTTTGAAGCTAAGCAAGCATACTCGTCCCTCCAGACAGTCACTCTACTGAGGAC
AGTGAAACCTGAGTTTGAGAAGTTTTCCATGGAGGTGAAAAGTTTCAAGTTGAGAAACAAGGGCTCAATATG
GAGGATTACGTTAACATGTTTGTGAAGGATCCACGATGCCATCCTCCTACGCTTGGCTCTACATG
AAGTACTCAGAGCTGGTTACAGCAAAAAGGATGGAGGGAAAATTATACAGCAGACTTGAACAGAACATT
TGAAGGTATCGCCGGGCGAGGTGCCATAGATGCCAACGGAGACCGATATGGGGATTTCTCTGTGATTGCC
TGCGGCGCAATGTCAAATATCCTTGGGGCCCTTAAAACCTGAGAATAGATGAAAACCGAATTGTAGAGCA
TACAAACAGCTCTCCCTGCAAATCATGTGGCTAGAAAGTACGGCAGTGACAGGAATTGCTGTGGGGCT
TACTAGGAGCTGGCTTCTAATGGCCTTCTACTTTTTTTCAGGAAGAAATACAGAATAACCATGAGAGGC
GAACCCAGCAAGAAGAAAGTAACCTTGGAAAACATCGGGAATTACGGGAAGATTCCATCAGATCCCATT
TTCAGTAGCTTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000908 unedited

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TTTTGTAATACGACTCACTATAGGGCGGCCGCGATTCCGGCACCAGTGNACGCTTCTCT
CTATCTTTTGGCGCATTAGTGAAGGGGTATTCTATTTTGTAAAGCGCCCAAGGGGCGC
AGGGACCTTGAGAGAAGAGTGGGGAGGAAAGAGGAAGGGCGGGTGGGGGCGAGAGGGCG
ATTCGGCGGGCGGAGGGCAAGCTCTTCTTTCGGCACGATGCCGTCTCTGCTGGTGTCT
ACTTTCTCCCCGTGCGTACTACTCGGCTGGGCGTTGCTGGCCGGCGCACCGGTGGCGGT
GGCGTTGGCGGGCGGCGGGTGGCGCGGCATATGCGGCGGACGCCATGATAGAGATGCG
CTGCCGCCACAGAAGATCGAGGTGCTGGTGTACTGCCCCAGGATGACTCGTACTTGT
TCACTCACCCGGGTGCGGCCGGCCATCGAGTATGCTCTGCGCATCGTGGACGGCATCGGG
ACTGGGATGCGGCTTCTGCCCGGGCACTCGCTTCCAGGTGGCTTACGAGGATTACAGAC
TGTGGGAACCGTGCCTTCTCATCTTGGTGGACCGCGTGGCGGGCGCAGGGCGCCAAT
CCATACCTTATCCTNCGCCAGTGTGCGAGTATGCATCAGCGCCAGTGGCCCCGCTGCA
TCGCACTGTGACCTGCCATGCTGTGGCTGGGGCGCTGGCCGCTGACTTCCANCAAG
GACTCTGAGTACTCGCACCTCACGCGGTGGCGCCGCTACGCCAGATGGGCGATATG
ATGCTCGCCCTGTTCCGCCCCACTGTATGCGCGCTGCACTGGGCTACAGCGACGACA
TGCTGGAGCCGATCTGCTACTTACNCCTCNAGGGGGTCCCACGAGTTCTTACGAAGG
AAGGGTTGGCACACGCCCTCTACAGTTTCCACGAGACCCAGACTCTGGTCCGGGGAGAC
TGGGCGCCATTTAGCCATGCAAAAAGGGGGTCTGGTGGCTAACAAAGACCTTCCGGA
CTTTGCTGGTGGGCAAAGCTAGACTGACAAGG
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_000908 unedited GTACACTATGNCCGCGGCCGCAATCTATGATCGGTTTTTTTTTTTTTTTTTACATCAA AAGGAAATATTTTTGACTTGCTTTTCTCTGTAATCCTCCCATCTCACTAATATTTACA ACAATCCAGAGTAGCGTTATGAGACACTGAAAAAGACAGGGAGGAAATCCTTTTTCAAG ATATGAAGTCAGAACCTGAATGTAGACATCGGACAGAGAAGTCCTCAACCACAACTGT CCTCCAGCTCTAGAGAGAGTAAGGCTGTATTTCCAACCTTGAGATTTTTTATTACATTTT CCCCTTTTTGGGTGTTAAATTTTCCAAGAATGCTGTACTTGAAAAATGATTTTATTC TAGCTACAAAACATTTTCAATTAAGAAAACCGCATTTTATATCCTTGTGTGAGATGCTCCC AAAAGCCATCAAGATATGGAGACAACAGATTTTAAAAACATAAATCTAATCATATGGGCT TGAAACAGTATGAACATTTAACAGAGTGACACGATATCATTATTATTTGTTTGTGATG AGATGAAAGGCCTGGNAGCAGATGGTGATTAATCATAATTCCTGAGCTTCTACAGAAAT TAAAAATGAAATTAATACTGCCTAAAATATGAATTTCTCAAGAACGCCCTTCTGNT NCATTGATGGTCTTTCAACCCGCTATCTCCTTAAAGGATCTCAGGCAGGAAAAAAAAA GTGGGGGGGCTTCTTTTAGCTACTGAAAAATGGGGTCTGATGGGAATCTTCCCGTAAT TCCCGATGTTTTCCAAGGCACTTCTTTTGGCGGGTTCGCCCTTCAAGGGTATTC TGGATTTCTTTCTGAAAAATTGAAAGGCCCTTAGCAAGCCAGCTTCCCATTAAG |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_000908 |
| Insert Size: | 2750 bp |
| OTI Disclaimer: | Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. |
| | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | NM_000908.2 , NP_000899.1 |
| RefSeq Size: | 2651 bp |

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|-------------------|---|
| RefSeq ORF: | 1623 bp |
| Locus ID: | 4883 |
| UniProt ID: | P17342 |
| Cytogenetics: | 5p13.3 |
| Domains: | ANF_receptor |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | <p>This gene encodes one of three natriuretic peptide receptors. Natriuretic peptides are small peptides which regulate blood volume and pressure, pulmonary hypertension, and cardiac function as well as some metabolic and growth processes. The product of this gene encodes a natriuretic peptide receptor responsible for clearing circulating and extracellular natriuretic peptides through endocytosis of the receptor. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |